

AMENDMENTS TO THE CLAIMS

1. (Original) A torque detecting apparatus comprising:

- a rotary shaft;
- a housing for supporting the rotary shaft;
- a sensor unit, retained in the housing, for producing an output corresponding to rotational torque applied to the rotary shaft;
- a circuit board, mounted in the housing, for supplying the output of the sensor unit to an external device; and
- a connection part for connecting the sensor unit and the circuit board,

wherein the circuit board and the connection part are integrally coated with synthetic resin.

2. (Original) The torque detecting apparatus according to Claim 1, wherein the sensor unit is coated with synthetic resin integrally with the circuit board and the connection part.

3. (Original) The torque detecting apparatus according to Claim 2, wherein the synthetic resin includes at least one of PBT, PPS, PA6, PA66 and PA12.

4. (Original) The torque detecting apparatus according to Claim 1, wherein the synthetic resin includes at least one of PBT,

PPS, PA6, PA66 and PA12.

5. (New) A torque detector comprising:
- a housing;
  - a shaft rotatably supported in the housing;
  - a sensor unit in the housing producing an output indicative of a rotational torque applied to the rotary shaft;
  - a circuit board in the housing electrically connected to the sensor by a connection part between the circuit board and the sensor, the circuit board supplying an output of the sensor unit to an external device; and
  - a layer of synthetic resin integrally coating the circuit board and connection part.

6. (New) The torque detector of claim 5 wherein said layer of synthetic resin integrally coats the circuit board, the connection part and the sensor.

7. (New) The torque detector of Claim 5, wherein the synthetic resin includes a material selected from the group consisting of PBT, PPS, PA6, PA66 and PA12.

8. (New) The torque detector of Claim 6, wherein the synthetic resin includes a material selected from the group consisting of

PBT, PPS, PA6, PA66 and PA12.

9. (New) A method of forming a torque detector comprising the steps of:

providing a housing having a first chamber for receiving a sensor and a shaft, a second chamber for receiving a circuit board and a passageway connecting the first chamber and the second chamber;

connecting a circuit board to a sensor with a connection part to form a unit;

coating the unit with synthetic resin; and

sliding the unit into the housing so that the sensor slides into the first chamber, the circuit board slides into the second chamber and the connection part slides into the passageway.

10. (New) The method of claim 9 including the additional steps of:

passing a shaft through the first chamber;

detecting a torque applied to the shaft; and

producing an output from the circuit board to an external device indicative of the torque applied to the shaft.